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US-08-171-389-267
US-08-475-228A-267
US-08-482-080A-267
US-08-482-080A-267
US-08-482-080A-267
US-08-482-080A-283
US-09-258-167-23
US-09-258-1670-23
US-09-258-670-23
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PCT-0S93-12388-331
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	Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence

ALIGNMENTS

Sequence 331, Application US/08171389 Patent No. 5578444 GENERAL INFORMATION: APPLICANT: Edwards, Cynthia A. APPLICANT: Cantor, Charles R. APPLICANT: Andrews, Beth M. APPLICANT: Turin, Lisa M. APPLICANT: Fry, Kirk E. APPLICANT: Fry, Kirk E. TITLE OF INVENTION: Sequence-Directed DNA Binding TITLE OF INVENTION: Molecules, Compositions and Methods NUMBER OF SEQUENCES: 641 CORRESPONDENCE ADDRESS: ADDRESSEE: Genelabs Technologies, Inc

SECUENCE CHARACTERISTICS:
INFORMATION FOR SEC ID NO: 331:
TELEFAX: (415) 324-0960
TELEPHONE: (415) 324-0880
TELECOMMUNICATION INFORMATION:
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
REGISTRATION NUMBER: 33,875
NAME: Fabian, Cary R.
ATTORNEY/AGENT INFORMATION:
FILING DATE: 22-JUN-1993
APPLICATION NUMBER OF 68/081,070
PRIOR APPLICATION DATA:
FILING DATE: 27-JUN-1991
APPLICATION NUMBER. US 07/723,618
PRIOR APPLICATION DATA:
FILING DATE: 23-DEC-1992
APPLICATION NUMBER: US 07/996,783
PRIOR APPLICATION DATA:
FILING DATE: 17-SEP-1993
APPLICATION NUMBER: US 08/123, 936
CLASSIFICATION: 435
APPLICATION NUMBER: US/U8/171,389
CURRENT APPLICATION DATA:
SOFTWARE: Patentin Release #1.0, Version #1.25
OPERATING SYSTEM: PC-DOS/MS-DOS
COMPUTER: IBM PC compatible
MEDIUM TYPE: Floppy disk
COMPUTER READABLE FORM:
Z1P: 94063
COUNTRY: USA
STATE: CA
CITY: Redwood City
STREET: 505 Panchacot Drive

ENGLE: 50 base pairs

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Sequence (84). Application 08/08123936
Extent No. 5/26014
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TO FEAX: (415) 324 DREG
INFORMATION FOR SEC 1D NO: 331
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COMPUTER: THAN 10 COMPUTED FOR
STUMARING SYSTEMS: 00 LOS/MS 100S
STUMARE: Fatoutin Release #1.0, Version #1.25
UTREEN APPLICATION DATA:
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APPELISATION NUMBER: US-07/996, 286
FILLING DALE. 26 DEC 1992.
PRIOR APPELICATION DAIA.
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; GENERAL INFORMATION
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INFORMATION FOR SEQ ID NO:
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TELECOMMUNICATION INFORMATION:
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CURRENT APPLICATION DATA:
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ATTORNEY/AGENT INFORMATION:
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COMPUTER: IM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
            INDIVIDUAL ISOLATE: Human non-histone chromosomal INDIVIDUAL ISOLATE: protein HMG 14 gene
                                                                                                                    TOPOLOGY: linear
                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07/723,618 FILING DATE: 27 JUN-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 08/124,946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 06 JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Redwood City
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
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                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                            Stratford, Carol A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CA
                                                                                                                                                                              50 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 505 Penobscot Drive
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                                                                                                                                                                                                                                                                  (415) 324-0880
                                                                                                 DNA (genomic)
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ownry Match 1.6%; Scrore 24.4; DB 2; Length 50; Hest Local Similarity 68.0%; Pred. No. 5.8e+03; Matches (4) Conservative 0; Mismatches 16; Indels

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Patent No.
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; Sequence 331, Application US/08482080A
                                                                                                                                                            TELEFOMMUNICATION INFORMATION:
TELEFHONE: (550) 324-0880
TELEFA: (650) 424-0960
INFORMATION FOR SEQ ID NO: 441:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILIN: DATE: 27-JUN-1991
FRIOR APPLICATION NUMBER: US 08/081,070
APPLICATION NUMBER: US 08/081,070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,489
FILING DATE: 20 DEC-1993
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                                  MOLECULE TYPE:
HYPOTHETICAL: N
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #3.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Sequence Directed DNA Binding FITLE OF INVENTION: Molecules, Compositions and Methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 08/081,070 FILLING DATE: 22-MN-1993 ATTORNEY/AGENT 'NFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
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                                                                                                      STRANDEDNESS: double
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INDIVIDUAL ISOLATE: Human non-histone chromosomal INDIVIDUAL ISOLATE: protein HMG 14 gene
                                                                                          : ASCYPORED.
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T: 505 Penobscot Drive
Redwood City
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Brady, John F.

Brady, John F.

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                                                                                                                                           50 base pairs
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                                                                                      linear
                                                       Z
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23 DEC-1992
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                                                                     DNA (genomic)
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PCT-US93-12388-331/c
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; GENERAL INFORMATION:
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Best Local Similarity 68.0%;
                                                                                                                                                                 Query Match 1.6%; Score 24.4; DB 5; Length 50, Best Local Similarity 68.0%; Pred. No. 5.8e+03;
                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (415) 324-09
INFORMATION FOR SEQ 1D NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
HYPOTHETICAL. N
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 17-SEP-
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOPTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
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AUTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 08/123,936
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                                 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: 1BM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US93/12388
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TYPE: nucleic acid
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23-DEC-1992
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: Sequence 374, Application US/08171389
; Patent No. 5578444

US-08-171-389-374

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OS CS 13 469 C1
                                                                                     Sequence 0.4. Application 05/08123946 Fatent N_{\rm b} \approx 5.28014
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 1684 Secte 23.4: DB 3: Length 50 Hest Todal Similarity 63.08, Prod. No. 9:46003;
                                            THREE TAN SEMALISM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SECTION OF 474 ORBIT
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        APT TANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORI HALL SOURCE: A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: DS 6
E11 INC DATE 28 DO' 1992
PRIOR APPLICALL N DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PHILING DATE: 12 SEP 1994
PELLIATION NUMBER: US 08/123/936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHRICE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SECOENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEFERENCE, THOUSE INFORMATION.
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CAMBULER IMM PACEMBALLE

OPERALING SYSTEM, TO LEADING WES

SAFIWARE FAIGHTED RELEASE #1.0, Version #1.25

PURKENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AL ORNEY/AGENI INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DAIF:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: DS OF
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Edwards, Tynthia A
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INDIVIDUAL ISOLATE: (bcl-2) proto-oncogene
US-08-123-936-374
                                                                                                                                                                                                                      // Sequence 374, Application US/08475228A
// Patent No. 5869241
                                                                                                                                                                                                                                                              US-08-475 228A-374
                                              GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.

APPLICANT: Candor, Charles R.

APPLICANT: Andrews, Beth M.

APPLICANT: Intin, Lisa M.

APPLICANT: Fry, Kirk E.

TITLE OF INVENTION: Molecules, Compositions and Methods
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Best Local S
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TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/
FILLING DATE: 28-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGINAL SOURCE:
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APPLICANT: Andrews, Heth M.
APPLICANT: Turin, Lisa M.
TITLE OF INVENTION: Screening Assay for the Detection of
TITLE OF INVENTION: DNA-Hinding Molecules
                                       NUMBER OF SEQUENCES:
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                       y Match 1.6%; Score 23.4; DR 1; Length 50;
Local Similarity 67.3%; Pred. No. 9.36504;
thes 33, Conservative 0, Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                          NAME: Fabian, Gary R. REGISTRATION NUMBER: 33,875
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: nucleic acid
STRANDEDNESS: double
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ADDRESSEE: Genelabs Technologies, Inc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPILICATION NUMBER: US/UN/123,936
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US 08-482 080A 374
Sequence 374, Application US/08482080A
Patent No. 6010849
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MEDIUM TYPE: Floppy
                                                                                                                                                 APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Turin, Lisa M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
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                                                                                                    NUMBER OF SEQUENCES: 6
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FILING DATE: 27 JUN 1991
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Local Similarity 67.3%;
hes 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07/996,784 FILING DATE: 23 DEC 1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC DOS/MS-DOS
STREET: bu City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE. (415) 324-0880
TELEFAX: (415) 324-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFIWARE: Pateniln Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      87 egreenegegeneegegeneegarentttettegegeneegegeneeteg 135
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INDIVIDUAL ISOLATE: {bcl-2} proto-oncogene
                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         94063
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Strattord, Carol A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ζ,
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                                                                             Genelabs Technologies, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06 JUN 1995
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                                                                                                                                  664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 07/723,618
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 23.4; DH 2; Length 50;
Pred. No. 9.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                            Sequence 374, Application PC/TUS9312388 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (650) 324-096
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/JOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA
                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
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                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 0 FILING DATE: 27-JUN-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 0 FILING DATE: 23-DEC-1992
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                                                                                                                                                       STREET: 505 Penobse
CITY: Redwood City
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     COMPUTER:
                                                                                                       COUNTRY:
                                                                                                                                        STATE:
                                                                                                                                                                                                               ADDRESSEE:
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INDIVIDUAL ISOLATE: (bcl-2) proto-oncogene
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Local Similarity 67.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33; Conservative
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                                                                                                                                                                                       505 Penobscot Drive
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                                                                                                          USA
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  E: Floppy disk
IBM PC compatible
                                                                                                                                                                                                               Genelabs Technologies, Inc
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                                                                                                                                                                                                                                                                                         Sequence-Directed DNA Binding Molecules, Compositions and Methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 08/123,936
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US 07/723,618
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 23.4; DB 3;
Pred. No. 9.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 50;
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RESULT 11
US ARE COMENTAL TO Application US/Decorots
Entent No. 544-008
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(NOTVIOUAL ISSEATE: (bel 2) proto oncodene
PST 9533 12388 374
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                                                                                                                                                                                                                                                                                                                                                                                                                                       overy Match 1.50; Score 23; DR 4; Length 40; Best Local Similarity 34,4%; Fred, No. 1.1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        M.11.
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Hest Leval Somilarity (57,88)
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TILLE OF INVENTICE. Method of Eduction based Scanning for Alterations in a
TILLE OF INVENTION. ENA Seament Using a bomble stranded ENA binding byo and
TILLE OF INVENTION: Finorescence Melting Profiles
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EARLIER FILING DATE: 1997-01-27
EARLIER APPLICATION NUMBER: 60/064,491
EARLIER FILING DATE: 1997-11-06
NUMBER OF SEQ ID NOS: 44
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CURRENT AFELICATION NUMBER, US/US/507,005B
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SOFTWARE: FastsEO for Windows Votsion 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                         EARLIER APPLICATION NUMBER: 60/035,963
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEo for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                          EARLIER FILING DATE: 1997-11 06
                                                                                                                                                                FEATURE:
                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                              TYPE: RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Translation template
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: KNA
                     y Match 1.5%; Score 22.8; DR 4; Length 49; Local Similarity 54.5%; Pred. No. 1.2004;
    Conservative
    9: Mismatches
11: Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17, Application US/09128354
Patent No. 6337200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 1.5%; Score 22.8; DB 4; Length 50; Hest Local Similarity 66.0%; Pred. No. 1.2e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ 10 NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mat ches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EARLIER APPLICATION NUMBER: US 08/851,843 EARLIER FILING DATE: 1997-05-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/128,354 CURRENT FILING DATE: 1998-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Morin, Gregg B. APPLICANT: Geron Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EARLIER APPLICATION NUMBER: US 09/052,864 EARLIER FILING DATE: 1998-04-41 NUMBER OF SEQ ID NOS: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EARLIER APPLICATION NUMBER: US 08/974,584 EARLIER FILING DATE: 1997-11-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EARLIER APPLICATION NUMBER: US 08/974,549
EARLIER FILING DATE: 1997-11-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EARLIER APPLICATION NUMBER: US 08/912,951 EARLIER FILING DATE: 1997-08-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EARLIER APPLICATION NUMBER: US 08/911,312
EARLIER FILING DATE: 1997-08-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 015389-003310US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HITLE OF INVENTION: Human Telomerase Catalytic Subunit Variants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EARLIER APPLICATION NUMBER: WO PCT/US97/17885 EARLIER FILING DATE: 1997 10-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EARLIER APPLICATION NUMBER: US 08/854,050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EARLIER APPLICATION NUMBER: US 08/915,503
                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EARLIER APPLICATION NUMBER: WO PCT/US97/17618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EARLIER FILING DATE: 1997-08-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence:LM122-Nuc oligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Aftiticial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 50
                                                                                                 APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-bitected DNA Hinding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
                                                                                                                                                                                                                           APPLICANT: Edwards, Cynthia A. APPLICANT: Cantor, Charles R. APPLICANT: Andrews, Beth M.
                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 | coetequeeeqecadqeeecettdeeqqeeaceqeeqqqeeqqqeqq 179
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Redwood City
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                             505 Penobscot Drive
                                                   Genelabs Technologies, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1997-05-09
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Best Local Similarity 66.7%;
Matches 32; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TRIEFAX: (415) 324-0960 INFORMATION FOR SEQ ID NO: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 466
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US 07/723,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 08/123,936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 0 FILING DATE: 22-JUN-1993 AFFORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                              93 egegeeeegegeeeegaeeetttettegegeeeeegeeeeteggeeeg 140
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49 CONCENTRACIONAGA CONTINUI DI LA CONCENTRACIO CON CONTINUI DE CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ISOLATE: Human phenylethanolamine N-methylase
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                                                                                                                                                                                                   0; Mismatches 16;
                                                                                                                                                                                                                                       Score 22.4; DB 1; Length 49; Pred, No. 1.5e+04;
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Post processing: Minimum Match 0%
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                                                                                                                                                                                                                                                                                                                            Maximum DB seg length: 50
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 13736207 seqs, 6748477542 residues
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RESULT

ALIGNMENTS

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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•	24.6	1.6	48	9	AL6 37 1 0 6	AL637106 AL637106
4.	24.4	1.6	50	7	AZ787456	AZ787456 2M0033006
٠,	24.2	1.5	46	7.	AZ777521	A#777521 2M0012H0
,	24.2	1.6	49	7	TA 3 4D 1 2P	Al.453367 T. bruce
"	24	1.6	4.2	12	TA63A10P	AL458255 T. bruce
x	24	1.6	48	1.2	A2646447	
? '}	24	1.6	49	2	AZ650456	AZ650456 1M0520G0
10	24	1.6	48	7	AZ860712	AZB60712 2M0166P18
	24	1.6	44	7.	AZ506149	A%506149 1M0347J05
7.1	24	1.6	49	12	A2656875	AZ656875 1M0532M1
1 4	24	1.6	49	12	A2764533	AZ764533 1M056001
14	24	1.6	49	12	AZ77 1388	NZ773388 1M0584E2
1,5	24	_ _	44	12	AZ820100	AZ820100 2M0092A1
16	12.4	1.6	44	:	TA168G090	ALA /4148 T. bruce
17	24	1.6	50	£	AA 1 204 37	AA120437 mn47a11.r

Query Match Best Local Similarity

2.28, 83.78,

Score 32 4; DH 10; Length 49; Pred. No. 2.1e:05;

AZ650069 1Mc520105	[2 AZ650069		1.5	•	4.5	
A251020 + IMC +54K06	12 AZ510203	46	1 5		44	
AZ407590 IM0178H16	12 AZ407590			•	43	
A#325773 IMOU48J12	12 AZ325773	<u>ئ</u> ق		13	د:	
AK822082 2M0095F05	12 AX822082				4 1	
AZ473613 1M028940	L2 AZ473613		1.5	22.6	40	
A2442112 IMP244K08	12 AZ442112			•	3.9	
AZ331900 IM0060A03	12 AZ331900	45	1.5	22.6	38	
AZ826077 2M0101A07	2 AZ826077		1.5		37	c
AA574989 VIII34.a(14 1	AA574989				36	
AU104216 AU104216				22.8	35	O
AZ666812 1M0549012			1.5		ω 4	
AZ407933 1M017HG2					ω 3	ဂ
AZ851459 2M0154P07	L2 AZ851459		1.5	23	32	ဂ
AZ769421 1M057000	12 AZ769421	47 1	1.5	23	31	
AZ597378 JM0411024	2 AZ597378		1.5	23	30	
H1667675 60325302	10 н1667675		1.6	ω	29	C
AZ335579 1M0065A01	12 AZ335579			٤,	83	ဂ
AZ65281 + 1M0526N08	2 AZ652813	48 1	1 ہ	23.6	27	
AW332205 S5E10 AGS	AW332205	44		٠	47	ດ
AZ981881 2M0262P2	2 AZ981881	-	1.6	ω.	25	
AZ486433 1M0 114N2U	2 AZ486433			23.8	24	
AZ342202 1M0075G11	2 AS342202		1.6	23.8	23	c
AZ967786 2MU238F20	.2 AZ967786			24	22	O
AZ861629 2M0168A19	2 A2861629			24	21	n
AZ816505 2M0085K24	12 AZ816605	50 1	1.6	24	20	
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ACCESSION VERSION BASE COUNT ORIGIN FEATURES COMMENT REFERENCE SOURCE KEYWORDS DEFINITION ВЛ034637 Locus HITLE AUTHORS OKCANISM JOURNAL source 49 bp mRNA linear ESI 06-LEC-2001 HJ034637 NIBB Mochii normalized Kenopus neurula library Xenopus Laevis CDNA cione XL030e21 5', mRNA sequence. Contact: Tadasu Shin-i Center For Genetic Resource Information National Institute of Genetics 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6856 Expressed genes in X. Laevis embryo Unpublished (2001) Kitayama, A., Terasaka, C., Mochii, M., Ueno, N., Shin-i, T. and Kohara Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Battachia; Anura; Mesobatrachia; Pipoldea; Pipidao; Xenopodinae; Xenopus. [(bases 1 to 49) Xenopus laevis Email: tshiniegenes.nig.ac.jp. African clawed frog. вл034637.1 GI:17392178 Fax: 81-559-81-6855 10 a /tissue_type-"whole embryo" /dev_stage="stage 15" 12 c 10 g 16 t /clone_lib="NIBB Mochil normalized Xenopus neurula library" /organism="Xenopus laevis" /db_xref~"taxon:8355" /clone-"XL030e21" Location/qualifiers . 49 16 t 1 others

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                                            С
                                 puritied the sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically competent E. coli XL10 Gold (Stratagene) cells
and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                           10.5 Rb came using preparative agarose del
electrophoresis. Vector DNA was prepared from a derivative
of pWB42 (di[47 k2]14]del[AF129072.1]), a copy number
inductible derivative of plasmid RL. The vector was ligated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polymorleotide kibase. Adaptor oligonucleotides were
lighted to the blunt ends in high molar excess. The
adaptored DNA was purified and size selected for a 9.5 to
                                                                                                                                                                                                                                                                                                    with adaptors complementary to the insert adaptors and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       was hydrodynamically sheared by repeated passage through a 0.005 inch critice at constant relectly. The cheared BNA was blunt end repaired with T4 DNA polymerase and T4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Laboratory Mouse DNA Resource
(http://www.fiv.rig/e.c./ris/Neumonts/deates/j
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note "Vector: PWD4.hrv: Purified genomic DNA from M. muscurns (5.50 /6) (wile) was detained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /sex "Male"
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Querry Mattern

Score 27.6: DR 12;

Length 50;

AUTHORS

Dunn.D., Adyaqi,A., Barber,M., Beadorn,T., Duval,B., Hamii

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REFERENCE
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Fax: 801 585 7177
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University of Utah
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                                                                                                                                                                                                                                AZ777521 46 bp DNA linear GSS 16-FEB 20 2M0012B01F Mouse 10kb plasmid WWGCLM library Mus musculus genomic
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lusert Length: 10000 Std Error: 0.00
Eukaryota: Metazoa: Chordata: Craniala: Vertebrata: Euteleostomi;
Mammalia: Entheria: Modentia: Sciurognathi; Muridae; Murinae; Mus
I (bases I to 46)
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/sex="Male"
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/strain-"C57BL/6J"
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Insert Length: 10000 Std Error:
Plate: 0012 row: B column: 01
Seq primer: CGTTGTAAAACGACGGCCAGT
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                                                 Trypanosoma brucei
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Fax: 801 585 7177
Trypanosoma.
                     Eukaryota; Euglenozoa; Kinetopiastida; Trypanosomatidae;
                                                                            Trypanosoma brucei.
                                                                                                                                 AL453367.1 GI:11854693
                                                                                                                                                                                  genomic survey sequence
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polymeracted tide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative against epice of pRO42 (gil4732114)gb.NF123072.1), a copy number
of pRO42 (gil4732114)gb.NF123072.1), a copy number
inducible derivative of plasmid kl. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was ainealed to
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chemically competent E. coll XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
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/note="Vector: PWD42nv; Purified genomic DNA from M.
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32: Conservative
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Chillingworth, C., Ormand.D., Harris.B., El Sayed, N., E
Melville, S.E., Rajandream, M.A., and Barrell, B.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Trypanosoma bracei (ERED-21/4 AUTat 10.1) was mechanically sheared to give a tight size distribution (
4 kb). The v i imethod used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vandin and B. Barrell, extend University Press, 1999).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nhi 'sanger .ac', uk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cambridge CB10 ISA, E-mail: barrell=sanger.ac.uk and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             merssingly to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota: Euglenozoa: Kinetoplastida: Trypanosomatidae;
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Pred. No. 3.7e+06;
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         adaptored DNA was purified and size selected for a 5 to 10.5 kb range using preparative againse gel executiophore in Perfor PBA was prepared flock a 5 control
                                                                                                                                                                                                                         was hydrodynamically sheared by repeated passage or rough 0.005 inch orlice at constant velocity. The shear fina was blunt end-repaired with I4 ENA polymerase and I4
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                                                                                                                                                                            polynucleotide kinase. Adaptor oligonucleotides were
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(http://www.jix.org/tesource/de-comerts/deares/)
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Y Match 1.6%; Score 24; BH 12; Length 42;
Lecal Similarity 75.0%; Pred. No. 4.1e+06;
hed 40; Conservative 9; Mismatches 10; Edels
                                                                                                                                                      High quality sequence stop: 48.
                                                                                                                                                                                                                                                                                                               Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                             University of Utah Genome Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert B. Weiss
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Mammalia; Eutheria; Rodentia; Schiroanathi; Muridae; Mur
                                                                                                                                                                                                                                                                            Email: ddunn genetics.utah.edu
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/db_xret-"taxon:10090"
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                                                   /strain-"C57BL/6J"
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University of Utah
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and Wright,D., Weiss,R.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 48)
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(http://www.lax.org/resources/documents/dhares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch oritice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymereotide kinase. Adaptor oligonucleotides were igated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agazose gel
                                                                                                                                                                                                                                                       /note-"Vector: PWD42ny; Purified genomic DNA from M. masculus C5781/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                       /ordanism-"Mus musculus"
/strain-"C578L/6J"
/db_xref-"taxon:10090"
/clone-"UUGC1M0520d09"
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Fax: 801 585 7177
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polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for 4.5.5 to
                                                                                                                                      Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dhares/). The DNA (http://www.jax.org/resources/documents/dhares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant volocity. The sheared JNA was blunt end-repaired with 14 DNA polymerase and 12 NA was blunt end-repaired with 14 DNA polymerase and 12 NA was blunt end-repaired with 14 DNA polymerase and 12 NA was blunt end-repaired with 14 DNA polymerase.
                                                                                                                                                                                                                                                                                                                                                                                                   /lab_host="E. Coli strain XL10-Cold, Theresistant, Fe"
/note="Veetor, PWD42nv; Purified genomic DNA from M.
musculus C578H,/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib-"Mouse 10kb plasmid UUGC1M library"
/sex-"Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /strain="C57H1,/6J"
/db_xref-"taxon:10090"
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68.8%; Pred. No. 4e+06;
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to? Kb rande using preparative adarose del effect ophoresis. Vector DNA was prepared from a derivative of pMI4. (dil474.114.1db.RE1290/2.1), a copy number inducible derivative of plicerid RL. The vector was liquied with adaptors complementary to the insert adaptors and

parilied. The sheared, adaptored mouse DNA was annealed to

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Send Lascal Similarity (88.8%; Fred, No. 40006;
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.M., Rose.M., Rose.R., Stokes,R., Lindey,A., von Niederhausern,A.
and Wright,D.,Weiss,R.
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was blunt end repaired with P4 DNA polymerase and T4 polymerbeotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The
                                                                                                                                                                                                                        (http://www.jo. ip/rose.com/bounders/bours/jo.sta.com/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bounders/bou
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Musculus (5704/6) (mate) was obtained from the Jackson
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Fax: 801 585 7177
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University of Utah
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                      (http://www.jax.org/resources/decomments/fares) The DNA was hydrodynamically sheared by repeated passage Tomah a 0.005 inch orifice at constant velocity. The shears DNA was blunt and repaired with 14 DNA polymerase and 4
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polynucleotide kinase. Adaptor oligonucleotides
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and Wright,D.,Weiss,R.
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Contact: Robert B. Weiss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Seq primer: CACACAGGAAACAGCTATGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          house mouse
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a C.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4
                                                                                                                                                                                                                                                                                         musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lib-"Mouse 10kb plasmid UUGCIM library"
/sex-"Male"
                                                                                                                                                                                                                       Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                               /lab_host-"E. Coli strain XL10-Gold, T1-resistant, P-"
/note-"Vector: PWD42nv: Purified genomic DNA from M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /clone-"UUGC1M0560o17"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AZ773388 49 bp DNA linear GSS 16 TEB 20 1M0584E23R Mouse 10kb plasmid UUGC1M library Mus musculus denomic clone UUGC1M0584E23 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: ddunn@genetics.utah.edu
Insert Longth: 10000 Std Error: (
Plate: 0584 row: E column: 23
Seg primer: CACACAGGAAACAGCTATGACC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              University of Utah Genome Center University of Utah
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Contact: Robert B. Weiss
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Fax: 801 585 7177
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA
                                                                                                                                                     /lab_host-"E. Coli strain XL10-Gold, T1-resistant, F "
/hote-"Vector, PupiArv, Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
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Seq primer: SGTG1AAAA@GACGGCCAGT
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University of Utah
KML ON. Holmedical Polymers Rese
84112, USA
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Contact: Robert B. Weigs
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fund.D . Avgadi.A . Rarber.M., Neacord.F., Daval.B., Hamil,C
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.M.: Rose,M.: Rose,R.: Stokes,R.: Tindey,A.: von Niederhausern,A.
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(http://www.jor.org/o.co.co.co.
                                                                                                             /note "Vector: PWD42nv: Furilied genomic DNA from M. musscalus of ML/63 (male) was obtained from the Jackson
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/strain "C5'R1/61"
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adaptored vector DNA, and transformed into
chemically competent E. coli XIIO Gold (Stratagene) cells
and selected for ampreillin resistance."
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                                                                                                                                                                                                                                                                                                                                  /clone fit "Mease Tokb plasmid UUGCIM Libiary"
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with adaptors complementary to the insert adapt — and purified. The sheared, adaptored mouse DNA was a evaled to adaptored vector DNA, and transformed into chemically-competent E. coli XLIO Gold (Stratage —) cells and selected for ampicillin resistance."
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Ŷ Query Match 1.6%; Score 24; DH 12; Length 49; Hest Local Similarity 68.8%; Pred. No. 4e+06; Mat ches 65 entregagementagemand decreases and decreases and 112 33; Conservative 0; Mismatches 15; Indels ÷

BASE COUNT

Job time: 1894 sec Search completed: September 26, 2002, 09:32:10 Ë

GenCore version 4.5

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Oligomer used in D	Guadi upic x inA SEO	Xehopus insulator	Xenopus insulator	Polynucleutide seq	HHV6 virus p41 den	Human SNP oligonac	Human SNP of identic			Human SNF oligonac	Human transcript o	DE19746591 primer	Mouse SM22-dipha p	Oligo SME 2 used a	Oligo SME-2, used	Oligomedeot.de SM	Human SNF ol.gonuc	Test sequence from	Human phenylethano	Human phenylethano	Human SNP oligonac	Human SNP oligonuc	Target sequence T1	E cadherin SNP pro	Oligomer used in D	Human growth harmo	Diol linked oligon	Human SNF of gonne	Staphy locacons dur	Human SNP of Gonge	Human SNF of Gonne	Test sequence from		Human hel-2 proto-	Hepatitis C diagno

ALIGNMENTS

RESULT 1 AAH79779/c

AAH79779 standard; DNA; 50 BP

AC AAH79779;

XX

AC AAH79779;

XX

T9-SEP-2001 (first entry)

XX

Human DNA containing single nucleotide polymorphism SEQ ID No. 494.

XX

Human DNA containing single nucleotide polymorphism; SNP; angiopoietin;

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KW

Human; single nucleotide polymorphism; SNP; angiopoietin;

KW

4-hydroxybutyrate; dehydrogenase; profein therapy;

KW

4-hydroxybutyrate; dehydrogenase; profein therapy;

KW

Madenosine triphosphale-dependent RNA helicase;

KW

Madenosine triphosphale-dependent RNA helicase;

KW

Madenosine triphosphale; inmunosuppressive; inmunostimulatory;

KW

Madenosine triphosphale; inmunosuppressive; inmunostimulatory; cytostatic;

KW

Matriheumatic; antisclerotic; antidiabetic; antiinflammatory; cytostatic;

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Mosphoglycerale kinase; inmunosuppressive; inmunostimulatory; cytostatic;

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Woldensie; neuroprotective; antimicrobial; gene therapy; vaccine; ds.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Air) dependent kNA belieuse, major histocompatibility complex (MiC) class I bistocompatibility antique and/or phosphoalyzerate krusse. Hese models acid simula made totide polymorphisms (SNPs) and the encoded proteins have potential immunosuppressive, immunostimulatory, antithemmatory, antithemmatory, antithemmatory, antithemmatory, antithemmatory, antithemmatory and antimiterobial detivity and may be useful in semc/protein therapy, vaccines, modulation of the expression and activity of proteins related to analogorietin, 4 bydroxybutyrate,
WITE 1999 254018/22
                                         Abrianani S. Grandi G.
                                                                                        V-IS NOSTILL ( STILL)
                                                                                                                                       DE CEL 1397;
                                                                                                                                                                                                            (Rec.) 1,82 up
                                                                                                                                                                                                                                                                                                       Westerland VI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX (7.2.5 standard; DNA; 41 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tibe in Epilodyddiaddd Cefferfaecerfydd feechidai gefef y ceffer 1281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            discusses with a genetic component, such as autoimmune discuses (e.g. theumalial) atthritis, multiple selecosis, dilabetes, systemic lupus crytherematicame in Calaze's discuse), in Lammalian, can er (e.g. cancers of the bladder, brain, breast, color and kidney, lookemis), discuses of the nervest system, an intertion of pathodenic organisms. They may also be used to after plenotypic traits such as longevity, appearance,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        debytrogenase, ademostne triphosphate (ATP) dependent RNA helicuse, major histocompatibility complex (MBC) class I histocompatibility antiqen and/or phosphoolbycrate kinase. Disorders that may be prevented, districted and/or treated by the above methods include multifactorial
                                                                                                                                                                                                                                                          LP V R LABOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Et 2 coding tragment amplifying forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Array strip) take the to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 50 BP; II A; 20 C; IS G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fedyme-tiphic variants of proteins (AAS98010 AA698248) related to include the hydroxybutyrate, debydrogenase, ademostne triphosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Folymorphic nucleus acids encoding e.g. andiopoietin, dehydrogenase, adem sine triphosphate dependent RNA helicuse and/or phosphoalycerate kinase, reetal for diagnosing and treating, e.g. cancer, antoimmune
                                                                                                                                                                                                                                                                                                                                                                                          ummunoqen: therapy: diadnosis: PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                           ched protein; receptor; Hepatifis d virms; HCV; E2 protein; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  strength, speed and endurance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to nucleic acids (AAH/9386 AAH80036) encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claus to Page 17th 484pp: English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WP1, 2001 418297/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MACH COSTING.
                                                                                                                                                             HOPE
                                                                                                                                                                                                         REVIOUS OMBRA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prod. No. 10002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local
                                                                              PCR primers AAH74673-74 were used to amplify DNA encoding a hepat
                                                                                                                 Example 1; Page 27; 138pp; Japanese.
                                                                                                                                                          alycoprotein or CD81
                                                                                                                                                                     e.g. antibodies, proteins, sulfated polysaceharides and low more compounds, by inhibiting binding of hepatitis \ell virus envelope
                                                                                                                                                                                                       Remedies for hepatitis C containing substances with antivital et-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to the use of the CDBI protein that is identical as a receptor for Hepatitis of virus (HVV). Compounds that specifically bind to CDBI can be used for therapy and diagnosis of HCV. The CDBI protein binds to HCV, preferably to the E2 protein. The CDBI protein can be used to raise and bodies, which can then be used in the diagnost of the capy of HCV. The and bodies can be used to prevent the virus tis induction to partient cells and being internalized. The CDBI protein can also
                                                                                                                                                                                                                                                  WPI; 2001 496986/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Complementarity determining region; CDR; single chain antibody; ; hepatitis C virus; hCV; HCV infection; CDR1; E2 protein; NS1 protein
                                                                                                                                                                                                                                                                                                                     (MITS-) MITSUBISHI-TOKYO PHARM INC.
                                                                                                                                                                                                                                                                                                                                                    14-FEB-2000; 2000JP 0034906.
                                                                                                                                                                                                                                                                                                                                                                                          13-FEB-2001; 2001Wo-JP00967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200158459-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              envelope glycoprotein; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer used to amplify DNA encoding a HeV protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-00T-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH7467 standard; DNA; 26 HP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            used to treat HCV intection. The CD81 protein, a functional equiveration a compound that binds to CD81, can be used in the manufacture of medicant for the treatment and diagnosis of a HCV intection. The expension can also be used as a protective immunopen in the control of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 41 BP; 16 A; 9 C; 8 C; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 6; Page 23; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hepatitis C receptor protein CD81
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                   Stak i K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.8%, Score 27; DB 20;
100.0%; Pred. No ''
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                              Yotsumoto Y, Matsuura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 1,5++04;
                                                                                                                                                                                          polysaccharides and low motor-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 41;
                                                                                                                                                                                                                                                                            Miyamura
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C virus (RCV) protein. The amplified fragment was used in the following the invention. The specification describes a substance which into is the binding between hepatitis C virus (RCV) and cells with potential \simeq V intection, cells with expression of CDB1, or CDB1. This substance is

is the

an antibody with affinity towards HCV E2/NS1 protein,

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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X 17 224 /:-
                Best Local s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     containing amino avid sequences based on the complementarity determining region (CDR) 1, CD2 and CDR3 of the H and L chain variable regions. The antibody inhibits the viral envelope qfycoprotein. It is also a CD81 inhibitor. The antibodies and drugs are used for treatment and/or prevention of hepatitis C, or for diagnosis of hepatitis C.
                                                                                                                                                                                                                    The invention relates to the use of the CD81 protein that is identified as a receptor for Hepatitis C virus (HCV). Compounds that specifically bind to CD81 can be used for therapy and diagnosis of HCV. The CD81 protein binds to HCV, preferably to the E2 protein. The CD81 protein can be used to raise antibodies, which can then be used in the diagnosis or therapy of HCV. The antibodies can be used to prevent the virus binding to patient cells and being internalized. The CD81 protein can also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CD&I protein; receptor; Hepatitis C vITUS; HCV; E2 protein; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 26 BF; + A; 7 C; 13 G; 3 T; 0 other;
                                                                                                                                                                  used to treat HCV intection. The CD81 protein, a functional equivalent, or a compound that binds to CD81, can be used in the manufacture of a medicant for the treatment and diagnosis of a HCV intection. The CD81
                                                                                                                                                                                                                                                                                                                                                                                                                Reputitis C receptor protein CD81
                                                                                                                                                                                                                                                                                                                                                                                                                                                      WP1; 1999 264018/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CHIR ) CHIRON SPA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Db OCT 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15 APR 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W09918198 Al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunogen; therapy; diagnosis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EC2 coding tragment amplifying reverse primer Ma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07 JUL 1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX37224 standard; DNA; 38 BP.
                                                                                        Sequence 48 BP; 9 A; 13 C; 9 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                          Example 6; Page 2(; 55pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06 001 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23 JUN 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               231 gegeegeeatgggagtggaagggetge 256
                                                                                                                                              protein can also be used as a protective immunogen in the control of
              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 gegeegeeatgggagtugagggetge 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26; Conservative
26;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Grandi G;
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                1.7%; Score 26; DB 20; 100.0%; Pred. No. 2.3e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.7%; Score 26;
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0; Mismatches
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                                    Length 38;
  Indels
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AAQ69581/c RESULT

AAQ69581 standard; DNA; 50 BP

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                                                          Best Local Similarity 73.8%; Matches 31; Conservative
                                                                                                                                                                                                            envelope gene. A novelectide sequence encoding this gene. Was then iterated using codons from highly expressed mammalian genes. The next stage was the creation of snuts (AAA49060-A49079) by redesigning this nucleotide construct so that restriction enzyme sites surrounded functional regions of the sequence. The snuts were then assembled into pieces (AAA49092). The present sequence is a PCR primer that was used in the assembly of the pieces. Each derivative of the envelope gene (AAA49092) was then built using the pieces. The HIV DNA varcine and used as a prophylactic varcine and as a therapentic varcine in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAA49135 standard; DNA; 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Producing nucleotide sequence construct with optimized codons for human immunodeliclency virus (HIV) genetic vaccine involves obtaining a first nucleotide sequence from a HIV patient, redesigning and assembling it with souts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HIV; human immunodeficiency virus; vaccine; AIDS; PCR primer; smat: silent nucleotide substitution; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1265-gp41AS primer used in the construction of piece for HIV vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA49135;
                                                                                                                                                                                                                                                                                                                                                                                                                   codons for use as a human immunodeficiency virus (HIV) DNA vaccine. The construct uses codons from highly expressed mammalian proteins to code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WP1; 2000-387778/33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (STAT-) STATENS SERUM INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAR-2000; 2000W0-DK00144
                                                                                                                                                                                                                                                                                                                                                                                  for each derivative of an early, primary HIV envelope gene. The first stage in the production of the construct was the cioning of an HIV
                                                                                                                                                             Sequence 48 BP, 11 A, 18 C, 16 G, 3 T, 0 other;
                                                                                                                                                                                                HIV infected patients.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a nucleotide construct with optimised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 4; Page 37, 150pp; English.
               434 ategetgtgggegetgteatgatgttegttggetteetggge 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELLITION OF THE STANDARD BY
44 AGCGCCGGGATCGGCGTATGTTCCTCGGCTTCCTGGGC 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99DK-0000427
                                                                      0; Mismatches
                                                                                     Score 24.4; DB 21; Length 48; Pred. No. 5.1e+04;
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AAI 64 04 07 × AAI 64 0
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                                                                                                                                                                                                                                                                           where Match (1.5%) Score 24.4; DR 15; Length 50; Best Local Similarity 58.0%; Prod. No. 5.1e-04; Matches (4); Conservative (0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                      taracts (typically, IAIA box centq, sites) for human genes and the sequences in AAQSSY 62 845 correspond to promoder targets for viral genes. The test sequences may also be randomly generated. DNA; protein rateract con may be used for screening purposes, e.g. the Herpes Simplex Viras (HSV) origin of replication and ULS (see AAQ65851 52, AAQ65865 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of mods to these test sequences changes the binding characteristics of the protein mod, to its coanate binding sequence. When such a mod binds the test sequence, the equilibrium of the DNA protein complexes is disturbed, generating changes in the concentration of free DNA probeone application of this method is to encaryotic general transcription factors (e.g. IFIID), where the target region is typically selected from DNA sequences adjacent to the binding site for the encaryotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A DNA protein binding assay is provious, ascall the ability libraries of synthetic or biological cpus, for their ability to brind DNA test sequences. The assay is versatile in that any number of test sequences can be tested by placing the test sequence manner of test sequences. Binding
                                                         AATETOLS:
                                                                                             AAF6404 & standard: INA: 50 BF
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(28.641 4004 8.7)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INA proton bunding ussay: test sequence; screening sequence; promoter target IAIA box; Herpes Simplex Virus; HSV;
              THE MAN THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tion scription factor. Numerous exemplary test sequences are given:
the sequences in AAgendal 24 and AAgenda correspond to promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pharmacenticals and as molecular reagents
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           THUMBOUND
                                                                                                                                                                                                                                                                                                                                                                                 Sequence for BP: 3 A: 14 C: 32 G: 1 I: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence directed DNA binding molecules
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHART) OF MELARS LECTROLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chand print of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            origin of replication; Why transcription factor; IFID; ds
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                                                                                                                                                                                               Claim 28. Page 37: 587pp: English
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Best Local Similarity 68.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              attinities of known DNA binding agents for different DNA sequence. The design of these duplex DNA's allows a simile DNA:protein into be used for screening sequence specific, or preferential, DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapeutic agents for treatment of any disease which involves a specific DNA sequence, e.g. cancer, or inherited genetic disorder. The method is suitable for screening large biological or chemical
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            overlapping by more than 4 bp, a binding site for a DNA binding; the small molecule is added at a concentration effective to allow binding of the DNA binding protein, prof. IFIID, to its binding the duplex DNA. The binding of the small molecule may inhibit of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       altering the binding characteristics of a DNA-binding protein to DNA comprises contacting the duplex DNA with a small molecule who binds sequence-specifically to a target region, where, when the molecule is bound to the target region, it is adjacent to, but n
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50 BP; 3 A; 14 C; 32 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The sequences given in AAF63713-4312 represent duplex DNA's whice as target regions in the method of the invention. The method to:
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eancer; inherited genetic disorder; ds.
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                                                                                                                                                                                                                                                                                                                                                                                    sequences in the duplex DNA; (iii) separating unbound test obligonucleotides bound to binding protein; (iv) amplifying the unbound test obligonucleotides; (v) repeating steps (iii) to (iv); (vi) isolating the amplified test oligonucleotides; and (ii) sequence and the isolated test oligonucleotides. Test sequences AAX17001 correspond to promoter targets for human genes and test sequences AAX17482-X17599 correspond to promoter targets
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequences AAX17001 to AAX17600 represent specifically claimed target test sequences that are used in the method of the invention of determining the DNA sequence preference of a DNA-binding molecule. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Test sequence, DNA binding molecule; screening sequence; human; nucleic acid amplification; target; viral; ds.
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                  1007 J.OO 67
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                                                                                                                                                                                                                                                                                                                                     32 G; 1 T; 0 other;
                                                                                                                                                                                                                                              Score 24.4; DB 20;
Pred. No. 5.1e+04;
0; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Turin LM;
                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                  Length 50;
                                                                                                                                                                                                                                                0;
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Diagnosis, hepatitis C virus; $\operatorname{HCV}_{\ell}$ primer; $\operatorname{amplily}_{\ell}$ detection; $\operatorname{hypervariable}$ region; ss .

Hepatitis C diagnostic primer

19-JUL-1996 (first entry)

AAT03676 standard; DNA;

40

12-DEC-1995. 31-MAY-1994;

94JP-0142564

JP07322881-A.

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Matches

Conservative

Û;

Mismatches

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Query Match 1.6%; Best Local Similarity 100.0%;

1.6%; Score 24; DB 22; 100.0%; Pred. No. 5.40+04;

Length 24; ; ; Indels

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PT X PD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             YPN OS XWW XXX
                                                      binding between hepatitis C virus (HCV) and cells with potential HCV infection, cells with expression of CD81, or CD81. This substance is especially an antibody with affinity towards HCV EZYNSI protein, countaining amino acid sequences based on the complementarity determining region (CDk) 1, CDk2 and CDk3 of the H and L chain variable regions. The antibody inhibits the viral envelope glycoprotein. It is also a CD81 inhibits the viral envelope and continuous contents and drugs are used for treatment and/or inhibits.
                                                                                                                                                                                                                                                                                                                                                      Remedies for hepatitis C containing substances with antiviral effects e.g. antibodies, proteins, sulfated polysaccharides and low-molecular compounds, by inhibiting binding of hepatitis C virus envelope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Complementarity determining region; CDR; single chain antibody; ScF;; hepatitis C virus; HCV; HCV infection; CD81; E2 protein; NS1 profein; envelope glycoprotein; PCR primer; ss.
                                                                                                                                                                                                          PCR primers AAH74673-74 were used to amplify DNA encoding a hepatitis C virus (HCV) protein. The amplified fragment was used in the course of the invention. The specification describes a substance which inhibits the
                                                                                                                                                                                                                                                                                                                                             glycoprotein or CD81 -
Sequence 24 BP; 5 A; 7 C; 7 C, 5 1; 0 other;
                                        prevention of hepatitis C, or for diagnosis of hepatitis C.
                                                                                                                                                                                                                                                                                                    Example 1; Page 27; 138pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-496986/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MITS-) MITSUBISHI-TOKYO PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-FEB-2000; 2000JP-0034906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-FEB-2001; 2001WO-JP00967.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shibui T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seki M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yotsumoto Y, Matsuura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Miyamura I
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Best Leval Samilarity 75,000
A DNA protein building assay is provided, useful for screening libraries of synthetic or biological epds, for their ability to bind DNA test sequences. The assay is versatile in that an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UNA statem binding assay: test sequence: screening sequence: prosser. Target: TATA box: Herpes Simplex Virus; HSV; or earn of replacation: (H2), transcription factor; TFIID: ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   used in combination with the primer sequences given in AAF04664-73 Preferably, primer MSL MS2 MS3 MS3 MS5 or MS6 and an oligo selected from MRL ME2 or MRL are used as primer pairs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in the diagnosis of bepatitis evirus (RV). These oligonic lectides acts as primers to amplify region of the five genome, prefiched proportionable regions. The amplified product is subjected to electrophoresis under denaturing conditions. These primers are
                                                                                                                                                                                                                     pharmacenticals and as morecular readents
                                                                                                                                                                                                                                                                                                                               WITE 1994 214/11/28
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1 1881, 1 400
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                                                                                                                                                                                                                                                         Sequence directed DNA brading nolecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GEN " ) OF NITABS TROUBLESS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1991 1991
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    Independent description of the second of the 
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                                                                                                                                           287 Page 1997 587pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   £1.
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                                                                                                                                                                                                                                                                                                                                                                                              Edwards CA.
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Pred. No. 5.90-04:
Fr. Mismatches 10: Indels
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Best Local Similarity 67.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          number of test sequences can be tested by plucing the test sequence adjacent to a defined protein binding servening sequence. Findis: of mols, to these test sequences changes the binding characteris: a of the protein mol, to its cognate binding sequence. When such a sol, binds the test sequence, the equilibrium of the DNA:profein conjuces
                                                                        The sequences given in AAT63714 4312 represent duplex DNA's whice as target regions in the method of the invention. The method for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             One application of this method is to encaryofic general transcript on factors (e.g. TFID), where the target request is typically solect in Iron DNA sequences adjacent to the binding site for the encaryofic transcription factor. Numerous exemplary test sequences are given the sequences in AAQ69251.731 and AAQ69850 correspond to promoter targets (typically, TATA box-contq, sites) for human genes and to sequences in AAQ69732.849 correspond to promoter targets for vit sequences may also be randomly generated. DNA; prototic interaction may be used for screening purposes; e.g. the Herpes 1.46× Wirus (HSV) origin of replication and UL9 (see AAQ6981.52, AAQ6.55.4 and
                                                                                                                                                                                                                                                                                                                                                                            Claim 6; Column 289; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Altering binding characteristics of {\rm DNA} binding proteins to duplo {\rm DNA} - by attaching specific small cpd. to target region close to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein's binding site, useful in treatment of viral disease, ear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WFT, 1997 020402/02
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23-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US5578444 A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Andrews BM, Cantor Ck, Edwards CA, Fry KE, Joron LM
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altering the binding characteristics of a DNA binding protein to

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17 SFP
07 JUN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA comprises contacting the duplex DNA with a small molecule which binds sequence specifically to a target region, where, when the small molecule is bound to the target region, it is adjacent to, but not overlapping by more than 4 bp, a bindled site for a DNA bindled protein. The small molecule is added at a concentration effective to after the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               binding of the DNA binding protein, pret TFIID, to its binding site on the diplex DNA. The binding of the small molecule may inhibit or enhance the binding of the DNA-binding protein to its binding site. The compounds isolated using this method are potentially useful as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 DEC
27 JUN
determining the DNA sequence preference of a DNA-binding molecule. The
                                Sequences AAX17001 to AAX17600 represent specifically claimed target test sequences that are used in the method of the invention of
                                                                                                                             Claim 3; Columns 29t 292; 270pp; English.
                                                                                                                                                                                                  sequence attached to test sequence
                                                                                                                                                                                                                                      based on inhibition of binding of protein to oligonucleofide
                                                                                                                                                                                                                                                               betermination of DNA sequence preference of a DNA binding molecule
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                                                                                                                                                                                                                                                                                                                                                                                                               Andrews BM, Cantor CR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GENE ) GENELARS TECHNOLOGIES INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lest sequence from B-cell leukemia/lymphoma 2 (bel-2) proto-oncogene.
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930S-0123336
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9108-0723618
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67.3%;
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Pred. No. 8.1e+04;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                method comprises: (i) adding a test molecule and a DNA-binding protein to a mixture of duplex DNA test oligonucleotides, each of the lest oligonucleotides having a test sequence adjacent to a screening sequence, where the screening sequence binds to the DNA-binding protein with a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antinicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; andiopoietin; apoptosis related protein; cadherin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; cytokine; interfector; interfectakin; G-protein coupled receptor; thioesterase; inflammation; miteriatial discontinuously described and coupled receptor; thioesterase; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 50 BP; 0 A; 34 C; 13 G; 3 T; 0 other;
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                                                                                             Polymorphic nucleic acids encoding e.g. amylases, cyclins, poncogenes and histones, useful for diagnosing and treating,
                                                                                                                                                            WPI; 2001-465210/50.
                                                                                                                                                                                                   Shimkets RA, Leach M;
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                                                                                                                                                                                                                                                                                      27-DEC-2000; 2000US-0173419
                                                                                                                                                                                                                                                                                                                                                   28-DEC-2808; 2000WO-US35498
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                                                                                                                                                                                                                                            (CURA-) CURAGEN CORP.
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67.3%;
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Claim 1; Page 2311; 4143pp; English.

cancer, autoimmune diseases and infections

The present invention relates to oligonucleutides encoding polymorphic

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      apopt six related proteins, cadherin, eyelin, polymerase, oncodencs, first dos. kinases, colony stipulated indiators, complement related proteins cytostromes, kinesine, cytoskines, interferency, interferekins, i protein compled receptors and thiocetorises. The present sequence is one such objectionally the objection thousand the peptides encoded by them may be seed in the prevention, diagnosis and treatment of discusses associated with inappropriate expression of the proteins listed above bisociets that may be prevented, diagnosed and/or treated include
The present invention relates to eligonucleatides encoding polymorphic variets of proteins related to amylases, amyloid proteins, analogoietin, up-press; related prateins, cadherin, cyclin, polymorase, encodencs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunoscappressive, immunostimulatory; antiinflammatory; cytostatic; neuropsotoetive, antimicrobad; dene therapy; vaccine; amylase; cancer; nmylood poletia; antappoietin; apoptosis; related protein; cadherin; cytolic; polymerase; encodenc; histone; kinase; colony stimulating tactor; complement related protein; cytochrome; kinase; cytokine; interferon; interferokin; G grotein coupled receptor; thioesterase; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               systemic lupus crythromatosus and drage's disease), inflammation, cancer (e.e. basets of the bladder, brain, breast, colon and kidney, leaknown). Alsoases of the normous system and in infortion of pithegenic
                                                                                                                                                               Polymerphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncopenes and histones, useful for diagnosing and freating, e.g.
                                                                                                                                                                                                                                                                                                                                                                    27 (05) (2000); 2000)(S (01734)(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              multilactorial diseases with a genetic component, such as autoimmune diseases (e.g. rhemmatoid arthritis, multiple sclerosis, diabetes,
                                                                                             Claim to Page (Step 414 Spec English)
                                                                                                                                                                                                                                   WELL 200-1 455210/50.
                                                                                                                                                                                                                                                                             Shamkets RA. Leavil Ma
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                                                                                                                                          Cancer, autoimmune diseases and intections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   multitactorial disease; autoimmune disease; intection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA: (4) By Standard CNA Sto BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 JAN 2002 (Tirst entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 23.4: DB 22: Length 50;
Prest. No. 8.1e+04:
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                                                organisms.
                                                                                                   systemic lapus erythromatosus and Grave's disease), inflammation, (e.g. cancers of the bladder, brain, breast, colon and kidney,
                                                                          leukaemia), diseases of the nervous system and an infection of par-
                                                                                                                                                          diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes
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Sequence 50 BP; 2 A; 17 C; 20 G; 11 T; 0 other;

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Query Match

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                                                                          Matches 31;
                                                                                             Best Local Similarity 70.5%;
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Search completed: September 26, Job time: 497; sec 2002, 10:23:29

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Database
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 50
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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ALIGNMENTS

misc_1eature	source	FEATURES	JOURNAL		3713.13.	AUTHORS	REFERENCE			ORGANISM	SOURCE	KEYWORDS	VERSION	ACCESSION	DEFINITION	SOCOS	AX204288/c	RESULT 1
/organism="Homo sapiens" /db_xref="taxon:9606" 2526 /note="Nucleotide deleted between bases 25 and 76	150	Location/Qualifiers	Patent: Wo 014×245=A 394 05-JUL-2001; Curagen Corporation (US)	methods of use thereof	Nucleic acids containing single nucleotide polymorphisms and	Shimkets,R.A. and Leach,M.	1 (bases 1 to 50)	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	Homo sapiens	human.		AX204288.1 GI:15393806	AX204288	Sequence 394 from Patent W00148245.	AX204288 50 bp DNA linear PAL 40 AUG 2001		

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Patent: US 5578444 A 331 26 NOV 1996;
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Edwards, C.A., Cantor, C.R., Andrews, R.M., Turin, L.M
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est Local Similarity 72.1%; Pred. No. 3.2e+06;
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Patent: WO 9109867 A 14 11 JUL:1991;
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Patent: US 5869241 A 374 09 FEB-1999;
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Edwards,C.A., Canter,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
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Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry.K.E.
Sequence-directed DNA-binding molecules compositions and methods
Patent: US 5578444-A 374 26-NOV-1996;
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Edwards, C A, Canfor, C P, Andrews, B.M. and Turin, L.M.
Screening assay for the detection of DNA-binding molecules
Patent: US 5726014-A 374 10-MAR-1998;
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Best Local Similarity 66.0%; Fred. No. 4.50000;
Matches 3; Conservative (); Mismatches (1); Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 1.5%; Score 22.8; DB 6; Leugth 45; Best Local Similarity 54.5%; Pred. No. 4.5ecor;
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Direct Submission Submitted (22-MAR 1996) P. Herri, IIHA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Enkaryota, Metazoa; Chordata; Craniata; Vertebrata; Entelo-
Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo-
l (bases 1 to 50)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid protein fusion molecules and libraries Patent: US 6281344 A 14 28-AUG 2001;
                                                                                                                                                                                                                                                                                                                                                                                  Milan, ITALY
                                                                                                                                                                                                                                                                                                                                                                                                                                       BOZZi,F
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SZOStak,J.W., Roberts, R.W. and Lin. R.
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